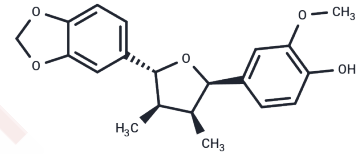


## Chicanine

## Chemical Properties

CAS No. :	78919-28-5
Formula:	C <sub>20</sub> H <sub>22</sub> O <sub>5</sub>
Molecular Weight:	342.39
Storage:	Keep away from direct sunlight, Keep away from moisture Powder: -20°C for 3 years   In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small>



## Biological Description

Description	Chicanine is a natural lignan that inhibits LPS-induced phosphorylation of p38 MAPK, ERK1/2, and IκB-α in macrophages, exhibiting anti-inflammatory activity.
Targets(IC50)	ERK,IκB/IKK,p38 MAPK
In vitro	Chicanine (6.25, 12.5, 25, and 50 μM, 18 hours) concentration-dependently decreased the production of NO and PGE2 in LPS-stimulated RAW 264.7 cells, with 50 μM chicanine reaching up to a 50% inhibition rate of NO [1].

## Solubility Information

Solubility	DMSO: 14 mg/mL (40.89 mM), Sonication and heating are recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.9206 mL	14.6032 mL	29.2065 mL
5 mM	0.5841 mL	2.9206 mL	5.8413 mL
10 mM	0.2921 mL	1.4603 mL	2.9206 mL
50 mM	0.0584 mL	0.2921 mL	0.5841 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Chicanine, et al. Anti-inflammatory effects of chicanine on murine macrophage by down-regulating LPS-induced inflammatory cytokines in I $\kappa$ B $\alpha$ /MAPK/ERK signaling pathways. Eur J Pharmacol. 2014 Feb 5;724:168-74.

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